

Select the correct answer from the drop-down menus.

Sound generally travels the fastest in a and the slowest in a .

solid
gas
liquid
vacuum

Sound generally travels the fastest in a and the slowest in a .

liquid
gas
solid
vacuum

A sound wave is a wave.

radio
longitudinal
surface
perpendicular

- The is a tough membrane that looks like a drum and vibrates by the sound wave.
- The allow the vibration to pass to the inner ear.
- The that vibrate, stimulating the in the ear.
- The ation as electrical pulses to the .

The steps below show the functioning of different parts of the ear.

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- The is a tough membrane that looks like a drum and vibrates by the sound wave.
- The in the middle ear allow the vibration to pass to the inner ear.
- The cochlea contains fluid and hair that vibrate, stimulating the in the ear.
- The auditory nerve transmits the vibration as electrical pulses to

cochlea
ear canal
eardrum
nerve cells

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brain
eye
ear
mouth

If you scream underwater, the sound will travel when in air, but slower than when in .

- faster than
- the same as
- slower than
- almost equal to

If you scream underwater, the sound will travel when in air, but slower than when in .

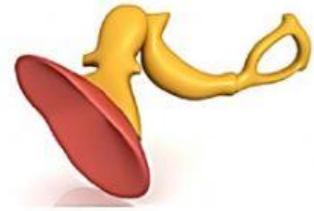
- vacuum
- gas
- liquid
- solid

Select the correct answer from the drop-down menus.

The membrane inside the ear is also called the .

This membrane .

- eardrum
- ear nerve
- ear canal
- cochlea



The membrane inside the ear is also called the .

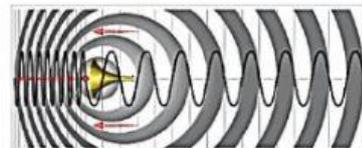
This membrane .

- has fluid
- is very thick
- is very thin
- has tiny hair cells

Select the correct answer from the drop-down menu.

When a sound source is moving toward you, .

- its frequency will change
- the sound becomes muted
- its frequency will stay the same
- the sound becomes quieter



Select the correct answer from the drop-down menu.

The decible scale is a relative scale of the .

- sound frequency
- sound variation
- sound pitch
- sound intensity

Fill in the correct answer from the word bank.

Word Bank

auditory nerve	auditory canal	middle ear	cochlea
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The spiral-shaped structure in the ear is called the .



Select the correct answer from the drop-down menu.

Khaled is studying the required key terms for his physics quiz. One of the key terms is frequency. Another word for the frequency of sound is .

- Intensity
- pitch
- volume
- note

Select the correct answer from the drop-down menu.

The loudness of a sound that your ears can hear is related to the

- speed
- Intensity
- wavelength
- frequency



Drag and drop the correct answer to fill in the blank.

Iron is than water. This means that sound wave in iron.

moves slower

more elastic

less elastic

moves faster

disappears

does not transmit

Select the correct answer from the drop-down menus.

Salma, an instructor, assigned her students to create a poster about sounds. Her students found that elephants can hear infrasounds. These sounds have a frequency of

. On the other hand, they found that dolphins can hear that are greater than 20,000 Hz.

- greater than 20 Hz
- less than 20 Hz
- greater than 20,000 Hz
- less than 20,000 Hz

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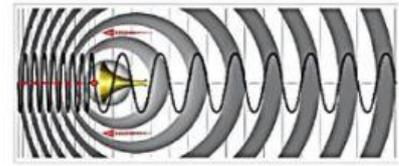
. On the other hand, they found that dolphins can hear that are greater than 20,000 Hz.

- ultrasounds
- Infrasounds
- upper sounds
- medium sounds

Select the correct answer from the drop-down menu.

When a sound source is moving away from you, the of the sound you hear decreases.

- pitch
- amplitude
- intensity
- speed

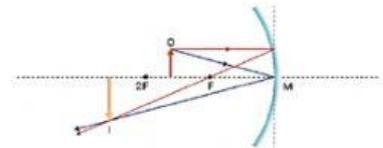


Select the correct answers from the drop-down menus to complete the sentences below.

The is between one and two focal lengths.

The the object.

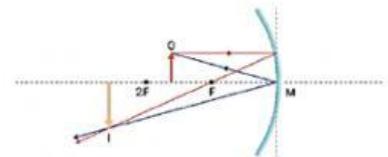
- real image
- virtual image
- object



The is between one and two focal lengths.

The image is , and it is the object.

- real
- virtual
- imaginary
- at infinity

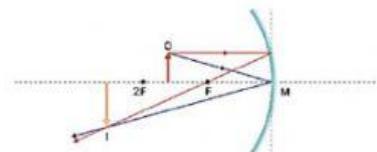


Select the correct answers from the drop-down menus to complete the sentences below.

The is between one and two focal lengths.

The image is , and it is the object.

- identical to
- closer than
- smaller than
- larger than



Select the correct option from each drop-down menu.

Sara has nearsightedness. She sees objects the best because the focal lengths of her eyes are too .

dark
near
distant
bright

Sara has nearsightedness. She sees objects the best because the focal lengths of her eyes are too .

deviated
far
long
short